CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Improvements of CC roads and RCC drains at 8th, 9th Cross & other roads near Pipeline in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/62/2016-17 Dated: 02.09.2016

* **Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 15.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	15.09.2016	8.192	328.5	14.60
2	08.09.2016	15.09.2016	8.256	340.6	15.14
3	08.09.2016	15.09.2016	8.340	350.2	15.56

* Information is furnished by the Customer/Representative

Note:

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : **Technical Manager (West),** KRIDL, Bangalore.

* **Name of the work** : Improvements of CC roads and RCC drains at 8th, 9th Cross & other roads near Pipeline in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/62/2016-17 Dated: 02.09.2016

* **Sample ID** : RCC Drain Side Wall Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.09.2016	06.10.2016	8.128	485.5	21.58
2	08.09.2016	06.10.2016	8.296	493.5	21.93
3	08.09.2016	06.10.2016	8.335	513.2	22.81

* Information is furnished by the Customer/Representative

Note:

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 17.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : **Technical Manager (West),** KRIDL, Bangalore.

* Name of the work : Improvements of CC roads and RCC drains at 8th, 9th Cross & other roads near Pipeline in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

* Reference : AEE/SSD/PR/62/2016-17 Dated: 02.09.2016

* Sample ID : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sample Received on : 17.09.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	17.09.2016	8.102	336.6	14.96
2	10.09.2016	17.09.2016	8.298	345.8	15.37
3	10.09.2016	17.09.2016	8.390	359.6	15.98

* Information is furnished by the Customer/Representative

Note:

Civil-Tech Consultants & Engineers Bangalore

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/CUBE/2016-17 08.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Improvements of CC roads and RCC drains at 8th, 9th Cross & other roads near Pipeline in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/62/2016-17 Dated: 02.09.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 08.10.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.09.2016	08.10.2016	8.120	478.3	21.26
2	10.09.2016	08.10.2016	8.239	493.5	21.93
3	10.09.2016	08.10.2016	8.335	512.3	22.77

* Information is furnished by the Customer/Representative

Note:

Bangalore

CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134a/Pre Cast Slab/2016-17 13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements of CC roads and RCC drains at 8th, 9th Cross & other roads near Pipeline in Ward No.13, in Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/62/2016-17 Dated: 02.09.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre Cast Slab
Sample received on	:	08.09.2016
Date of Testing	:	13.09.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.403	2503.00	1.64	0.960	32.50	16.55	17.88	17.16	21.45
2	50.00	83.00	0.412	2528.07	1.66	0.965	33.60	17.11	18.48	17.83	22.29
3	50.00	84.00	0.420	2546.48	1.68	0.970	33.95	17.29	18.67	18.11	22.64

*Information is furnished by the Customer/Representative.